

SEQUENCE LISTING

- <110> UHLMANN, EUGEN BREIPOHL, GERHARD WILL, DAVID W
- <120> POLYAMIDE NUCLEIC ACID DERIVATIVES AND AGENTS AND
 PROCESSES FOR PREPARING THEM
- <130> 02481.1742 SEQUENCE LISTING
- <140> Not Yet Assigned
- <141> 2001-04-16
- <160> 64
- <170> PatentIn Ver. 2.1
- <210> 1
- <211> 21
- <212> DNA
- <213> Artificial Sequence
- <220>
- <223> Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to viral and cellular targets
- <400> 1

gcgtttgctc ttcttcttgc g

- <210> 2
- <211> 20
- <212> DNA
- <213> Artificial Sequence
- <220>
- <223> Description of Artificial Sequence: nucleotide
 base sequence of PNA derivatives that bind to
 viral and cellular targets
- <400> 2

acacccaatt ctgaaaatgg

<210> 3

<211> 20

153

20

21

<212> <213>	DNA Artificial Sequence	
<220> <223>	Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to viral and cellular targets	
<400>	3	
aggtc	cctgt tcgggcgcca	20
<210>	4	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
	Description of Artificial Sequence: nucleotide	
12207	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	-	
gcggg	gctcc atgggggtcg	20
<210>	5	
<211>	15	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
	Description of Artificial Sequence: nucleotide	
(223)	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	5	
caget	gcaac ccagc	15
<210>	6	
<211>	11	
<212>	DNA	
<213>	Artificial Sequence	
Z220×		
<220>	Description of Artificial Sequence: nucleotide	
1227	base sequence of PNA derivatives that bind to	

viral and cellular targets

<400>	6	
tattc	egtea t	11
<210>	7	
<211>		
<212>	DNA	
<213>	Artificial Sequence	
.000		
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	7	
	ceate geteeteagg gg	22
cccg	30000 900000099 95	
<210>	8	
<211>	15	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
. 4 0 0 :		
<400>		1 5
ggctg	ccatg gtccc	15
	·	
<210>	9	
<211>	·	
<212>		
	Artificial Sequence	
	•	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	9	
aacta	etaga geggggeaca e	21

<210>	10	
<211>	15	
<212>	DNA	
<213>	Artificial Sequence	
4000		
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	10	
aacgt	tgagg ggcat	15
<210>	. 11	
<211>		•
<211>		
	Artificial Sequence	
(213)	Artificial bequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	· - 11	
	ggggt cttcgggc	18
grgoo	99996 00009990	
<210>	12	
<211>	17	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	12	
cgaga	acatc atcgtgg	17
<210>	13	
<211>		
<212>		
	Artificial Sequence	
<220>		



<223>	Desc	ription	of	Artif	icial	Sequenc	ce:	nucled	otide
	base	sequenc	ce d	of PNA	deri	vatives	that	bind	to
	vira	l and ce	ellu	ılar t	arget	s			

<400> 13		
ggagaacatc	atggtcgaaa	Ğ

21

<210> 14 <211> 22 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to viral and cellular targets

<400> 14 cccgagaaca tcatggtcga ag

22

<210> 15 <211> 20 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: nucleotide
base sequence of PNA derivatives that bind to
viral and cellular targets

<400> 15

ggggaaagcc cggcaagggg

20

<210> 16 <211> 20 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: nucleotide
 base sequence of PNA derivatives that bind to
 viral and cellular targets

<400> 16 caccegeett ggeeteecae

20

<210>	17	
<211>	18	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	17	
gggac	teegg egeagege	18
<210>	18	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	18	
ggcaa	acttt cttttcctcc	20
<210>	19	
<211>	19	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>		19
yyyaa	ggagg aggatgagg	13
<210>	20	
<211>	21	
<212>		
<213>	Artificial Sequence	

<220>		
<223>	Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>		
ggcagt	ccatc cagettegga g	21
<210>	21	
<211>	18	
<212>		
<213>	Artificial Sequence	
<220>	Description of Autificial Company, muchostide	
<2237	Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to	
	-	
	viral and cellular targets	
<400>	21	
tctcc	cageg tgegeeat	18
<210>	22	
<211>	19	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
•	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	22	
gcgct	gatag acatccatg	19
<210>	23	
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	

	\400 /	23	
	ggagg	cccga cc	12
	<210>	·	
	<211>		
	<212>		
	<213>	Artificial Sequence	
	<220>		
	<223>	Description of Artificial Sequence: nucleotide	
		base sequence of PNA derivatives that bind to	
		viral and cellular targets	
	44005		
	<400>		12
	ggttt	cggag gc	12
ī			
	<210>	25	
Ō	<211>		
<u>.</u>	<212>		
ī		Artificial Sequence	
Ų	\213/	Artificial bequence	
	<220>		
₽		Description of Artificial Sequence: nucleotide	
		base sequence of PNA derivatives that bind to	
		viral and cellular targets	
		•	
	<400>	25	
	tggtg	gaggt ag	12
=			
	<210>		
	<211>		
	<212>		
	<213>	Artificial Sequence	
	1000		
	<220>		
	<223>	Description of Artificial Sequence: nucleotide	
		base sequence of PNA derivatives that bind to	
		viral and cellular targets	
	<400>	26	
		gtgga gg	12
	,,,,,,		
	<210>	27	
	<211>	12	

<212>	DNA	
<213>	Artificial Sequence	
<220>	·	
	Description of Artificial Sequence: nucleotide	
\2237	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
	-	
<400>	27	
ttggca	atggt gg	12
<210>	28	
<211>		
<212>		
	Artificial Sequence	
	•	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	28	
	ggacc ac	12
geerg	ggaco ao	
<210>	29	
<211>	12	
<212>		
<213>	Artificial Sequence	
<220>		
	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
	•	
<400>	29	
cagee	tggga cc	12
<210>	30	
<211>		
<212>		
	Artificial Sequence	
	•	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	hase sequence of PNA derivatives that bind to	

viral and cellular targets

<400>	30 .	
tgcago	ctgg ga	12
<210>	~~	
<211>	12	
<212>		
<213>	Artificial Sequence	
<220>		
	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	•
<400>		12
gtgcag	geetg gg	12
<210>		
<211>	12	
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	32	
	agcct gg	12
990900		
<210>	33	
<211>		
<211>		
\ 213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	33	
atgggt	tgcag cc	12

	<210>	34	
	<211>	12	
	<212>	DNA	
	<213>	Artificial Sequence	
	<220>		
	<223>	Description of Artificial Sequence: nucleotide	
		viral and cellular targets	
	<400>		
	ggctt	gaaga tg	12
	<210>	26	
	<211>		
	<211>		
1		Artificial Sequence	
fanf tion. Onn and Am fant fant fant	\213/	Artificial Sequence	
	<220>		
j		Description of Artificial Sequence: nucleotide	
1	12207	base sequence of PNA derivatives that bind to	
		viral and cellular targets	
-			
Į.	<400>	35	
1	gcagco	ccccg ca	12
\ = =	2 2		
ļ	<210>	36	
F	<211>	12	
<u> </u>	<212>	DNA	
	<213>	Artificial Sequence	
	<220>	ı	
	<223>	Description of Artificial Sequence: nucleotide	
		base sequence of PNA derivatives that bind to	
		viral and cellular targets	
	<400>		1.0
	gcagca	agece ee	12
		·	
	<210>	37	
	<211>		
	<211>		
		Artificial Sequence	
	1210/		
	<220>		

_	.223>	base sequence of PNA derivatives that bind to viral and cellular targets	
<	400>	37	
t	cccg	cctgt gacatgcatt	20
	210>		
	211> 212>	- *	
		Artificial Sequence	
	220>		
<	:223>	Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to viral and cellular targets	
	400>		
g	ttct	egetg gtgagtttca	20
<	210>	39	
	211>		
	212>		
<	.213>	Artificial Sequence	
	220>		
<	:223>	Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to viral and cellular targets	
<	400>	39	
g	cgtg	cctcc tcactggc	18
<	210>	40	
<	211>	18	
	212>		
<	213>	Artificial Sequence	
	220>		
<	223>	Description of Artificial Sequence: nucleotide	
		base sequence of PNA derivatives that bind to	
		viral and cellular targets	
<	400>	40	
g	cagt	aagca tccatatc	18



<210>	41	
<211>	20	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to viral and cellular targets	
<400>	41	
gcccaa	agctg gcatccgtca	20
_		
	•	
<210>		
<211>		•
<212>		
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	42	
ccccc	accac ttcccctctc	20
<210>	43	
<211>		
<212>		
<213>	Artificial Sequence	
	•	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	43	
	ccacc acttcccctc	20
		20
Z2105	4.4	
<210> <211>		
<211> <212>	·	
	Artificial Sequence	
ヘムエウン	writting pednemice	

<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	44	
gctgg	gagcc atagcgagg	19
<210>	45	
<211>	21	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>		
actgct	egeet ettgteteag g	21
.010.		
<210>		
<211>		
<212>		
<213>	Artificial Sequence	ø
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>	46	
caatca	aatga cttcaagagt tc	22
<010×	47	
<210>		
<211>		
<212>		
<213>	Artificial Sequence	
<220>	Burneloute and Burleton and Bur	
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	

	<400>	47	
	gcggc	ggaaa agccatcg	18
	<210>	48	
	<211>	18	
	<212>	DNA	
	<213>	Artificial Sequence	
	<220>		
	<223>	Description of Artificial Sequence: nucleotide	
		base sequence of PNA derivatives that bind to	
		viral and cellular targets	
	<400>		
	gtgtc	ggggt ctccgggc	18
1			
f	<210>	4.0	
; 1			
	<211> <212>		
E			
]	\213 >	Artificial Sequence	
	<220>		
		Description of Artificial Sequence: nucleotide	
=	\ZZ J/	base sequence of PNA derivatives that bind to	
		viral and cellular targets	
e L		VIIII und cerrarar targets	
	<400>	49	
	cacqti	tgagg ggcat	15
≟	_		
	<210>	50	
	<211>	18	
	<212>	DNA	
	<213>	Artificial Sequence	
	_		
	<220>		
	<223>	Description of Artificial Sequence: nucleotide	
		base sequence of PNA derivatives that bind to	
		viral and cellular targets	
	z400:	50	
	<400>		10
	gictt	ccata gttactca	18
	<210>	51	
	<211>		

<212> <213>	DNA Artificial Sequence	
<220> <223>	Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to viral and cellular targets	
<400> gatcag	51 ggcgt gcctcaaa	18
<210><211><211><212><213>	21	
<220> <223>	Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to viral and cellular targets	
<400> gatgga	52 agggc ggcatggcgg g	21
<210><211><211><212><213>	4	
<220> <223>	Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to viral and cellular targets	
<400> aact	53	4
<210><211><211><212><213>	12	
<220> <223>	Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to	

viral and cellular targets

<400>	54	
acatca	atggt cg	12
<210>	55	
<211>	12	
<212>	DNA	
<213>	Artificial Sequence	
	•	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
	·	
<400>	55	
ccacga	atgat gt	12
<210>	56	
<211>	17	
<212>	DNA	
<213>	Artificial Sequence	
<220>		
<223>	Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400>		
gagcca	atgta tagtgac	17
<210>	E.7	
<211>		
<212>		
<213>	Artificial Sequence	
<220>		
	Description of Artificial Sequence: nucleotide	
1227/	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
	vitar and Cerrurar Caryets	
<400>	57	
	tgag atctgg	16
55 - `		

<220>



<210> 58



<211	> 11 > DNA	
	> DNA > Artificial Sequence	
\213	> Altilicial bequence	
<220	>	
	> Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400	> 58	
tatt	ccgtca t	11
<210		
<211		
	> DNA	
<213	> Artificial Sequence	
<220	>	
-	> Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400	> 59	
actg	atgtag tc	12
<210		
<211		
	> DNA	
<213	> Artificial Sequence	
<220	`	
	> Description of Artificial Sequence: nucleotide	
	base sequence of PNA derivatives that bind to	
	viral and cellular targets	
<400	> 60	
gctg	atgtag tc	12
<210		
<211		
	> DNA	
<213	> Artificial Sequence	





<223> Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to viral and cellular targets

<400>	61	
ggtate	ggat	at

12

<210> 62 <211> 12 <212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to viral and cellular targets

<400> 62 tgaaggaaga gg

12

<210> 63 <211> 11

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: nucleotide base sequence of PNA derivatives that bind to viral and cellular targets

<400> 63 gttagggtta g

11

<210> 64

<211> 8

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: nucleotide
 base sequence of PNA derivatives that bind to
 viral and cellular targets

<400> 64 ccccttcc

8